

IN THE CLAIMS:

1. (Currently amended) A multilayer, unsupported, membrane comprising:

a first layer having a symmetrically distributed first pore size; and
at least a second layer having a symmetrically distributed second pore size,
the first and second layers being operatively connected with a distinct change in pore size at the interface thereof such that the multilayer membrane is continuous ~~and does not include any support material~~.

2. (original) The multilayer membrane of claim 1 wherein the first layer is formed from a first polymer dope for producing one pore size and the at least a second layer is formed from at least a second polymer dope for producing at least one different pore size.

3. (original) The multilayer membrane of claim 1 wherein the polymer dope comprises:

nylon.

4. (original) The multilayer membrane of claim 1 wherein the polymer dope comprises:

polyvinylidene fluoride.

5. (original) The multilayer membrane of claim 1 wherein the polymer dope comprises:

polyether sulfone.

6. (original) The multilayer membrane of claim 1 wherein the multilayer membrane has a type I configuration.

7. (original) The multilayer membrane of claim 29 wherein the multilayer membrane has a type II configuration.

8. (original) The multilayer membrane of claim 1 wherein the multilayer membrane has a type III configuration.

9. (original) The multilayer membrane of claim 1 wherein the multilayer membrane has a type IV configuration.

10. (original) The multilayer membrane of claim 1 wherein the multilayer membrane has a type V configuration.

11. (original) The multilayer membrane of claim 1 wherein the multilayer membrane has a type VI configuration.

12. (original) The multilayer membrane of claim 1 wherein the multilayer membrane has a type VII configuration.

13. (original) The multilayer membrane of claim 1 wherein the multilayer membrane has a type VIII configuration.

14. (original) The multilayer membrane of claim 1 wherein the multilayer membrane has a type IX configuration.

15. (Currently amended) A two layer, unsupported, membrane comprising:

a first layer having a symmetrically distributed first pore size; and

a second layer having a symmetrically distributed second pore size, the first and second layers being operatively connected with a distinct change in pore size at the interface thereof such that the two layer membrane is continuous ~~and does not include any support material.~~

16. (Currently amended) A two layer, unsupported, membrane comprising:

a first layer having a symmetrically distributed first pore size; and

a second layer having a symmetrically distributed second pore size, the first and second layers being operatively connected such that the two layer membrane is continuous with a minimum of shear turbulence induced interlayer mixing ~~and does not include any support material.~~